

INTERNATIONAL SEARCH REPORT

International Application No
PCT/GB2004/002647

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07K16/28 A61K39/395

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07K A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>TAYLOR P A ET AL: "CD4+CD25+ IMMUNE REGULATORY CELLS ARE REQUIRED FOR INDUCTION OF TOLERANCE TO ALLOANTIGEN VIA COSTIMULATORY BLOCKADE"</p> <p>JOURNAL OF EXPERIMENTAL MEDICINE, TOKYO, JP, vol. 193, no. 11, 4 June 2001 (2001-06-04), pages 1311-1317, XP001066285 ISSN: 0022-1007 the whole document</p> <p style="text-align: center;">----- -/--</p>	45, 54, 55

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"Z" document member of the same patent family

Date of the actual completion of the international search

29 November 2004

Date of mailing of the international search report

14/12/2004

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	QIN S ET AL: "INDUCTION OF TOLERANCE IN PERIPHERAL T CELLS WITH MONOCLONAL ANTIBODIES" EUROPEAN JOURNAL OF IMMUNOLOGY, WEINHEIM, DE, vol. 20, no. 12, 1990, pages 2737-2745, XP001021712 ISSN: 0014-2980 the whole document	1-59
A	WO 90/15152 A (COBBOLD STEPHEN P ; WALDMANN HERMAN (GB)) 13 December 1990 (1990-12-13) the whole document	1-59
A	EP 0 240 344 A (WELLCOME FOUND) 7 October 1987 (1987-10-07) the whole document	1-59
A	KINGSLEY CHERRY I ET AL: "CD25+CD4+ regulatory T cells prevent graft rejection: CTLA-4- and IL-10-dependent immunoregulation of alloresponses." JOURNAL OF IMMUNOLOGY (BALTIMORE, MD. : 1950) 1 FEB 2002, vol. 168, no. 3, 1 February 2002 (2002-02-01), pages 1080-1086, XP002306445 ISSN: 0022-1767 the whole document	1-59
A	WALDMANN H ET AL: "How do monoclonal antibodies induce tolerance? A role for infectious tolerance?" ANNUAL REVIEW OF IMMUNOLOGY. 1998, vol. 16, 1998, pages 619-644, XP002306446 ISSN: 0732-0582 the whole document	1-59
A	WO 01/00679 A (IWAKOSHI NEAL ; MORDES JOHN P (US); GREINER DALE L (US); ROSSINI ALDO) 4 January 2001 (2001-01-04) the whole document	1-59
A	WO 01/68134 A (GENETICS INST) 20 September 2001 (2001-09-20) the whole document	1-59

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>TAYLOR PATRICIA A ET AL: "The infusion of ex vivo activated and expanded CD4(+)CD25(+) immune regulatory cells inhibits graft-versus-host disease lethality." BLOOD. 15 MAY 2002, vol. 99, no. 10, 15 May 2002 (2002-05-15), pages 3493-3499, XP002307187 ISSN: 0006-4971 the whole document</p>	1-59
A	<p>TAYLOR PATRICIA A ET AL: "Tolerance induction of alloreactive T cells via ex vivo blockade of the CD40:CD40L costimulatory pathway results in the generation of a potent immune regulatory cell." BLOOD. 15 JUN 2002, vol. 99, no. 12, 15 June 2002 (2002-06-15), pages 4601-4609, XP002307188 ISSN: 0006-4971 the whole document</p>	1-59

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Box II Observations where certain claims were found unsearchable (Continuation of Item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

Although claims 1-21, 45-53 and 56-59 are directed to a method of treatment of the human/animal body by therapy and/or surgery, the search has been carried out and based on the alleged effects of the method (Rule 39.1(iv) PCT).
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of Item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9015152 A	13-12-1990	AT 145246 T	15-11-1996
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		WO 0168134 A2	20-09-2001
		US 2003161827 A1	28-08-2003